

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1428089

Luminaire Tested: SQ2W-PP3-K-100U-075D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428089  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PP3-K-100U-075D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE PRISM LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

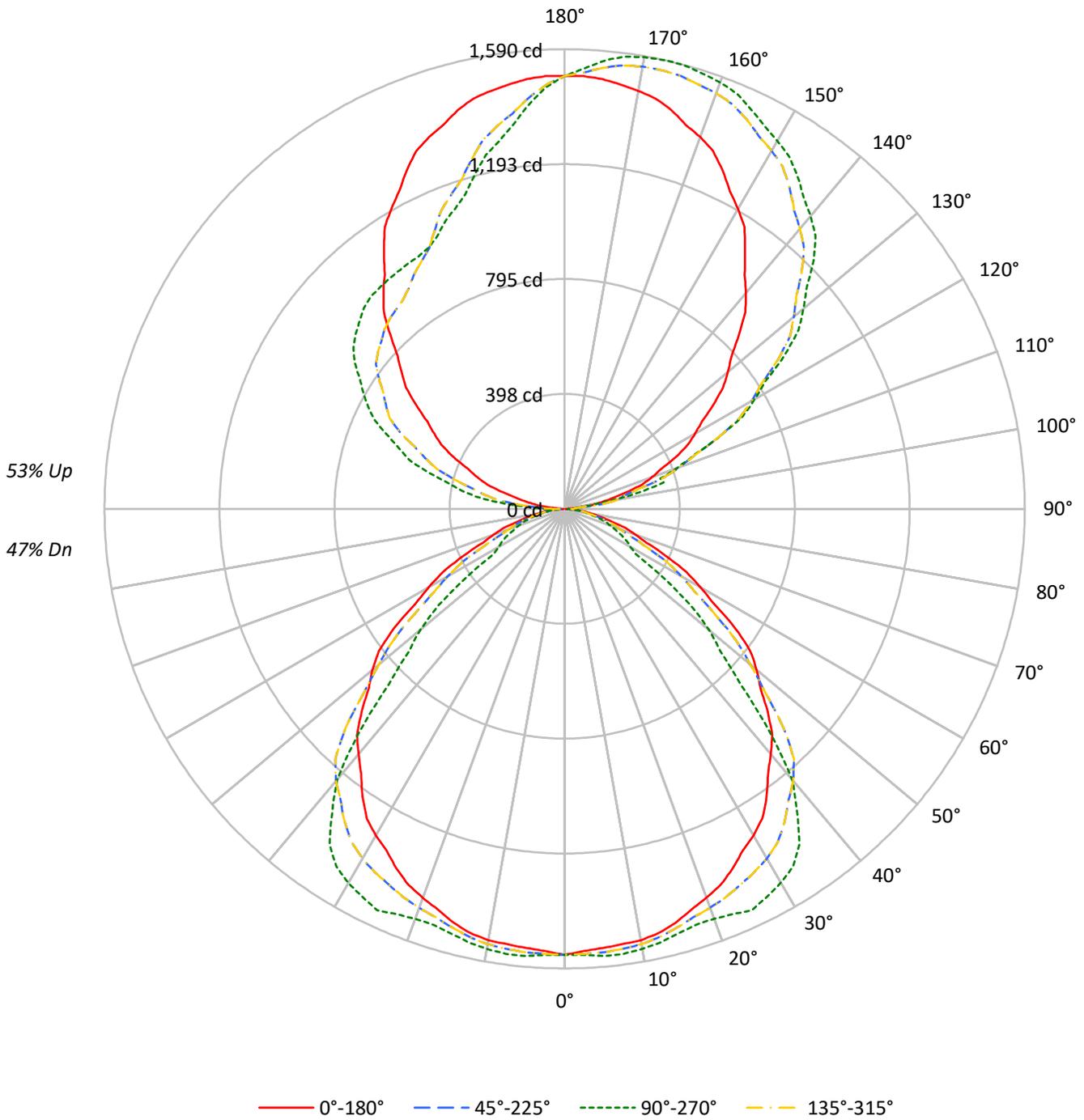
Lumens per Lamp: N/A  
Luminaire Lumens: 8263.5 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 59.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	94	90	87	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	76	71	67	64	60	57	53	50	48	43	41	40	35
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34	30
4	75	64	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	52	44	38	58	48	41	36	41	36	32	34	30	27	28	25	23	20
7	59	47	39	33	54	43	36	32	37	32	28	31	27	24	26	23	21	18
8	54	42	35	30	50	39	33	28	34	29	25	29	25	22	24	21	18	16
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	24	44	33	27	22	29	23	20	24	20	18	20	17	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	24913	24913	24913	24913
5°	24716	25167	24716	25167
10°	24841	25349	24841	25349
15°	24782	25409	24782	25409
20°	24606	25922	24606	25922
25°	24465	27283	24465	27283
30°	24326	27853	24326	27853
35°	23983	27904	23983	27904
40°	23342	25783	23342	25783
45°	22644	19627	22644	19627
50°	21755	16347	21755	16347
55°	20248	11752	20248	11752
60°	17434	8428	17434	8428
65°	14705	8286	14705	8286
70°	12241	7931	12241	7931
75°	10380	7430	10380	7430
80°	8796	6676	8796	6676
85°	6947	3631	6947	3631

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 24770 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	1.8
10°-20°	425.2	5.1
20°-30°	666.2	8.1
30°-40°	821.8	9.9
40°-50°	773.6	9.4
50°-60°	547.8	6.6
60°-70°	312.1	3.8
70°-80°	154.5	1.9
80°-90°	44.0	0.5
90°-100°	119.2	1.4
100°-110°	347.5	4.2
110°-120°	567.1	6.9
120°-130°	719.6	8.7
130°-140°	770.0	9.3
140°-150°	719.0	8.7
150°-160°	591.6	7.2
160°-170°	396.8	4.8
170°-180°	140.9	1.7
0°-30°	1238.3	15.0
0°-40°	2060.0	24.9
0°-60°	3381.5	40.9
0°-90°	3892.1	47.1
90°-120°	1033.7	12.5
90°-150°	3242.2	39.2
90°-180°	4371.0	52.9
0°-180°	8263.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1543	1543	1543	1543	1543	
5°	1525	1553	1525	1553	1525	145
15°	1483	1520	1483	1520	1483	418
25°	1373	1532	1373	1532	1373	633
35°	1217	1416	1217	1416	1217	759
45°	992	860	992	860	992	763
55°	719	418	719	418	719	635
65°	385	217	385	217	385	387
75°	166	119	166	119	166	180
85°	38	20	38	20	38	44
90°	4	33	4	65	4	5
95°	47	35	47	204	47	57
105°	221	354	221	487	221	235
115°	423	587	423	723	423	417
125°	626	930	626	886	626	560
135°	851	1217	851	982	851	658
145°	1087	1403	1087	1003	1087	680
155°	1292	1524	1292	1040	1292	594
165°	1428	1589	1428	1198	1428	402
175°	1493	1556	1493	1405	1493	142
180°	1497	1497	1497	1497	1497	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1531.2	1541.1	1550.9	1548.6	1542.2	1539.6	1540.8	1542.0	1543.1	1544.3	1543.1
5°	1525.0	1537.3	1549.7	1547.9	1541.3	1538.8	1540.2	1542.6	1547.7	1552.8	1547.7
7.5°	1519.2	1531.8	1544.4	1542.7	1536.4	1534.4	1536.9	1540.3	1546.5	1552.8	1546.5
10°	1515.2	1526.1	1537.0	1535.4	1529.6	1528.5	1532.1	1536.1	1541.2	1546.2	1541.2
12.5°	1503.5	1513.8	1524.1	1522.7	1517.5	1517.3	1522.1	1526.8	1531.3	1535.8	1531.3
15°	1482.6	1492.0	1501.5	1501.6	1498.7	1500.6	1507.1	1512.9	1516.5	1520.1	1516.5
17.5°	1454.2	1465.7	1477.1	1479.8	1479.5	1484.0	1493.3	1501.2	1504.9	1508.7	1504.9
20°	1432.1	1445.8	1459.6	1464.1	1465.6	1472.1	1483.7	1494.2	1501.5	1508.7	1501.5
22.5°	1408.6	1424.7	1440.8	1446.7	1449.3	1459.3	1476.7	1492.9	1505.4	1517.8	1505.4
25°	1373.3	1389.3	1405.2	1416.8	1427.0	1444.7	1470.1	1493.9	1512.7	1531.5	1512.7
27.5°	1332.2	1348.0	1363.8	1383.8	1405.1	1430.0	1458.6	1483.7	1498.7	1513.6	1498.7
30°	1304.8	1320.1	1335.3	1358.1	1383.5	1411.0	1440.8	1466.5	1480.3	1494.0	1480.3
32.5°	1270.9	1286.7	1302.5	1326.8	1353.9	1383.5	1415.5	1442.7	1455.3	1467.9	1455.3
35°	1216.8	1232.0	1247.2	1275.5	1308.1	1341.1	1374.4	1401.2	1408.5	1415.7	1408.5
37.5°	1154.5	1171.7	1189.0	1220.7	1257.2	1284.8	1303.5	1317.7	1318.1	1318.5	1318.1
40°	1107.5	1129.9	1152.4	1184.1	1218.9	1238.1	1241.8	1242.1	1232.7	1223.3	1232.7
42.5°	1061.8	1090.7	1119.5	1145.0	1169.3	1174.4	1160.0	1138.8	1096.9	1055.0	1096.9
45°	991.7	1025.7	1059.8	1075.4	1084.8	1052.9	979.7	917.6	888.6	859.6	888.6
47.5°	917.0	950.6	984.2	979.9	963.0	914.7	835.1	770.4	750.4	730.4	750.4
50°	866.1	898.0	929.9	906.9	865.5	811.2	743.8	688.5	669.6	650.8	669.6
52.5°	808.7	837.1	865.5	830.7	774.9	717.7	658.9	607.7	579.0	550.3	579.0
55°	719.3	738.9	758.4	720.4	663.1	600.0	531.2	472.6	445.1	417.5	445.1
57.5°	611.6	625.4	639.2	609.2	564.7	502.0	421.1	352.7	321.9	291.0	321.9
60°	539.9	550.7	561.6	534.4	494.6	434.8	355.0	291.4	276.2	261.0	276.2
62.5°	474.6	484.3	494.1	465.7	424.7	371.3	305.4	254.7	249.4	244.0	249.4
65°	384.9	394.3	403.8	374.1	331.3	289.6	249.0	218.4	217.7	216.9	217.7
67.5°	306.3	316.6	326.9	298.9	258.2	227.4	206.5	190.6	189.7	188.9	189.7
70°	259.3	270.2	281.1	255.0	216.6	191.6	180.0	170.9	169.4	168.0	169.4
72.5°	220.2	230.5	240.8	218.0	184.2	163.6	156.0	150.2	149.3	148.4	149.3
75°	166.4	174.3	182.3	165.8	141.2	127.0	123.4	120.5	119.8	119.1	119.8
77.5°	120.7	125.8	130.8	120.0	104.0	95.0	93.1	91.5	90.8	90.0	90.8
80°	94.6	96.8	98.9	91.3	80.5	74.7	73.9	73.2	72.5	71.8	72.5
82.5°	71.1	70.4	69.7	65.2	59.6	56.4	55.7	54.8	53.5	52.2	53.5
85°	37.5	36.1	34.6	33.2	31.7	29.5	26.6	23.9	21.7	19.6	21.7
87.5°	12.7	13.9	15.4	14.4	12.4	11.0	10.4	10.3	10.6	10.6	10.6
90°	4.5	10.6	18.1	24.2	28.7	30.2	30.2	31.8	33.3	33.3	33.3
92.5°	16.6	26.3	26.6	26.6	32.4	35.1	37.5	37.8	39.3	39.3	39.3
95°	46.9	51.4	77.1	75.6	51.4	40.8	34.8	34.8	34.8	34.8	34.8
97.5°	89.5	96.2	100.4	134.6	142.2	137.3	111.9	94.1	84.1	79.5	84.1
100°	127.0	130.1	139.1	140.6	178.4	214.7	196.6	173.9	166.4	161.8	166.4
102.5°	164.5	166.4	180.3	186.6	195.4	216.0	278.9	271.9	266.8	265.9	266.8
105°	220.8	222.3	248.0	260.1	266.2	266.2	264.7	294.9	343.3	353.9	343.3
107.5°	281.0	287.9	318.2	350.5	357.5	359.3	351.5	346.9	345.1	346.3	345.1
110°	322.1	332.7	369.0	409.8	420.4	423.4	420.4	415.9	412.9	412.9	412.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	362.0	377.5	418.6	465.5	483.3	492.4	485.7	482.4	479.4	481.8	479.4
115°	423.4	446.1	500.6	549.0	585.3	589.8	588.3	588.3	586.8	586.8	586.8
117.5°	480.3	516.6	577.7	634.0	676.0	688.1	694.1	692.3	690.5	693.5	690.5
120°	520.2	562.6	632.1	695.7	736.5	754.6	760.7	757.7	760.7	757.7	760.7
122.5°	562.6	614.6	682.9	748.9	797.0	817.5	824.8	825.4	826.0	824.2	826.0
125°	626.1	689.6	769.8	837.8	887.7	911.9	918.0	919.5	922.5	930.1	922.5
127.5°	690.2	762.2	850.2	915.8	967.0	996.3	1005.7	1009.0	1015.3	1018.7	1015.3
130°	735.0	816.6	905.9	967.9	1017.8	1049.5	1066.2	1070.7	1078.3	1076.7	1078.3
132.5°	782.2	867.4	957.9	1022.3	1068.6	1102.8	1117.0	1130.0	1132.7	1134.8	1132.7
135°	851.4	943.7	1034.4	1097.9	1141.8	1175.0	1193.2	1205.3	1212.9	1217.4	1212.9
137.5°	924.3	1021.7	1108.8	1165.4	1209.5	1238.3	1258.8	1271.5	1279.4	1283.0	1279.4
140°	973.9	1067.7	1152.4	1211.3	1250.7	1279.4	1297.5	1312.7	1321.7	1321.7	1321.7
142.5°	1021.1	1113.6	1195.9	1254.9	1289.4	1315.7	1335.0	1346.5	1356.8	1356.8	1356.8
145°	1087.3	1179.6	1255.2	1314.2	1342.9	1367.1	1388.3	1397.4	1403.4	1403.4	1403.4
147.5°	1156.6	1238.3	1307.2	1363.8	1388.0	1416.4	1433.0	1440.3	1447.9	1444.5	1447.9
150°	1197.7	1273.3	1339.9	1392.8	1417.0	1444.2	1460.9	1466.9	1474.5	1469.9	1474.5
152.5°	1237.7	1309.6	1370.1	1419.4	1440.0	1467.2	1486.3	1492.3	1497.5	1494.1	1497.5
155°	1291.5	1355.0	1411.0	1456.3	1474.5	1500.2	1518.3	1525.9	1531.9	1524.4	1531.9
157.5°	1339.6	1394.3	1443.0	1484.8	1504.1	1526.2	1543.1	1552.5	1558.6	1555.2	1558.6
160°	1368.6	1418.5	1462.4	1501.7	1519.8	1539.5	1557.7	1568.2	1574.3	1569.8	1574.3
162.5°	1392.8	1437.9	1479.3	1515.0	1530.7	1548.0	1569.8	1579.1	1585.2	1579.4	1585.2
165°	1427.6	1463.9	1500.2	1530.4	1544.0	1557.7	1580.3	1590.9	1595.5	1589.4	1595.5
167.5°	1453.9	1481.7	1511.1	1537.1	1547.1	1560.4	1583.1	1591.8	1597.6	1590.0	1597.6
170°	1468.4	1492.6	1518.3	1539.5	1547.1	1559.2	1581.9	1589.4	1593.9	1586.4	1593.9
172.5°	1480.5	1498.7	1519.5	1538.3	1542.2	1551.9	1573.4	1580.9	1584.3	1577.9	1584.3
175°	1492.6	1503.2	1518.3	1530.4	1528.9	1535.0	1553.1	1559.2	1565.2	1556.1	1565.2
177.5°	1498.4	1503.2	1508.1	1515.3	1510.5	1510.5	1523.8	1527.4	1528.6	1523.8	1528.6
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1542.0	1540.8	1539.6	1542.2	1548.6	1550.9	1541.1	1531.2	1541.1	1550.9	1548.6
5°	1542.6	1540.2	1538.8	1541.3	1547.9	1549.7	1537.3	1525.0	1537.3	1549.7	1547.9
7.5°	1540.3	1536.9	1534.4	1536.4	1542.7	1544.4	1531.8	1519.2	1531.8	1544.4	1542.7
10°	1536.1	1532.1	1528.5	1529.6	1535.4	1537.0	1526.1	1515.2	1526.1	1537.0	1535.4
12.5°	1526.8	1522.1	1517.3	1517.5	1522.7	1524.1	1513.8	1503.5	1513.8	1524.1	1522.7
15°	1512.9	1507.1	1500.6	1498.7	1501.6	1501.5	1492.0	1482.6	1492.0	1501.5	1501.6
17.5°	1501.2	1493.3	1484.0	1479.5	1479.8	1477.1	1465.7	1454.2	1465.7	1477.1	1479.8
20°	1494.2	1483.7	1472.1	1465.6	1464.1	1459.6	1445.8	1432.1	1445.8	1459.6	1464.1
22.5°	1492.9	1476.7	1459.3	1449.3	1446.7	1440.8	1424.7	1408.6	1424.7	1440.8	1446.7
25°	1493.9	1470.1	1444.7	1427.0	1416.8	1405.2	1389.3	1373.3	1389.3	1405.2	1416.8
27.5°	1483.7	1458.6	1430.0	1405.1	1383.8	1363.8	1348.0	1332.2	1348.0	1363.8	1383.8
30°	1466.5	1440.8	1411.0	1383.5	1358.1	1335.3	1320.1	1304.8	1320.1	1335.3	1358.1
32.5°	1442.7	1415.5	1383.5	1353.9	1326.8	1302.5	1286.7	1270.9	1286.7	1302.5	1326.8
35°	1401.2	1374.4	1341.1	1308.1	1275.5	1247.2	1232.0	1216.8	1232.0	1247.2	1275.5
37.5°	1317.7	1303.5	1284.8	1257.2	1220.7	1189.0	1171.7	1154.5	1171.7	1189.0	1220.7
40°	1242.1	1241.8	1238.1	1218.9	1184.1	1152.4	1129.9	1107.5	1129.9	1152.4	1184.1
42.5°	1138.8	1160.0	1174.4	1169.3	1145.0	1119.5	1090.7	1061.8	1090.7	1119.5	1145.0
45°	917.6	979.7	1052.9	1084.8	1075.4	1059.8	1025.7	991.7	1025.7	1059.8	1075.4
47.5°	770.4	835.1	914.7	963.0	979.9	984.2	950.6	917.0	950.6	984.2	979.9
50°	688.5	743.8	811.2	865.5	906.9	929.9	898.0	866.1	898.0	929.9	906.9
52.5°	607.7	658.9	717.7	774.9	830.7	865.5	837.1	808.7	837.1	865.5	830.7
55°	472.6	531.2	600.0	663.1	720.4	758.4	738.9	719.3	738.9	758.4	720.4
57.5°	352.7	421.1	502.0	564.7	609.2	639.2	625.4	611.6	625.4	639.2	609.2
60°	291.4	355.0	434.8	494.6	534.4	561.6	550.7	539.9	550.7	561.6	534.4
62.5°	254.7	305.4	371.3	424.7	465.7	494.1	484.3	474.6	484.3	494.1	465.7
65°	218.4	249.0	289.6	331.3	374.1	403.8	394.3	384.9	394.3	403.8	374.1
67.5°	190.6	206.5	227.4	258.2	298.9	326.9	316.6	306.3	316.6	326.9	298.9
70°	170.9	180.0	191.6	216.6	255.0	281.1	270.2	259.3	270.2	281.1	255.0
72.5°	150.2	156.0	163.6	184.2	218.0	240.8	230.5	220.2	230.5	240.8	218.0
75°	120.5	123.4	127.0	141.2	165.8	182.3	174.3	166.4	174.3	182.3	165.8
77.5°	91.5	93.1	95.0	104.0	120.0	130.8	125.8	120.7	125.8	130.8	120.0
80°	73.2	73.9	74.7	80.5	91.3	98.9	96.8	94.6	96.8	98.9	91.3
82.5°	54.8	55.7	56.4	59.6	65.2	69.7	70.4	71.1	70.4	69.7	65.2
85°	23.9	26.6	29.5	31.7	33.2	34.6	36.1	37.5	36.1	34.6	33.2
87.5°	10.3	10.4	11.0	12.4	14.4	15.4	13.9	12.7	13.9	15.1	15.0
90°	31.8	30.2	30.2	28.7	24.2	18.1	10.6	4.5	10.6	16.6	27.2
92.5°	37.8	37.5	35.1	32.4	26.6	26.6	26.3	16.6	28.7	40.8	58.7
95°	34.8	34.8	40.8	51.4	75.6	77.1	51.4	46.9	66.5	93.8	118.0
97.5°	94.1	111.9	137.3	142.2	134.6	100.4	96.2	89.5	121.9	148.8	187.8
100°	173.9	196.6	214.7	178.4	140.6	139.1	130.1	127.0	161.8	187.5	225.3
102.5°	271.9	278.9	216.0	195.4	186.6	180.3	166.4	164.5	199.3	234.7	266.5
105°	294.9	264.7	266.2	266.2	260.1	248.0	222.3	220.8	260.1	300.9	340.3
107.5°	346.9	351.5	359.3	357.5	350.5	318.2	287.9	281.0	316.4	365.4	408.6
110°	415.9	420.4	423.4	420.4	409.8	369.0	332.7	322.1	353.9	405.3	452.2



TEST NUMBER: P1428089

CATALOG NUMBER: SQ2W-PP3-K-100U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	482.4	485.7	492.4	483.3	465.5	418.6	377.5	362.0	393.8	446.4	494.5
115°	588.3	588.3	589.8	585.3	549.0	500.6	446.1	423.4	450.7	499.1	552.0
117.5°	692.3	694.1	688.1	676.0	634.0	577.7	516.6	480.3	501.8	552.9	607.3
120°	757.7	760.7	754.6	736.5	695.7	632.1	562.6	520.2	536.9	586.8	641.2
122.5°	825.4	824.8	817.5	797.0	748.9	682.9	614.6	562.6	569.5	615.8	669.0
125°	919.5	918.0	911.9	887.7	837.8	769.8	689.6	626.1	617.0	656.3	710.8
127.5°	1009.0	1005.7	996.3	967.0	915.8	850.2	762.2	690.2	669.9	694.7	744.6
130°	1070.7	1066.2	1049.5	1017.8	967.9	905.9	816.6	735.0	706.2	721.4	765.2
132.5°	1130.0	1117.0	1102.8	1068.6	1022.3	957.9	867.4	782.2	742.5	749.2	783.4
135°	1205.3	1193.2	1175.0	1141.8	1097.9	1034.4	943.7	851.4	797.0	790.9	810.6
137.5°	1271.5	1258.8	1238.3	1209.5	1165.4	1108.8	1021.7	924.3	855.7	835.4	842.9
140°	1312.7	1297.5	1279.4	1250.7	1211.3	1152.4	1067.7	973.9	896.8	868.1	863.5
142.5°	1346.5	1335.0	1315.7	1289.4	1254.9	1195.9	1113.6	1021.1	939.1	901.9	891.3
145°	1397.4	1388.3	1367.1	1342.9	1314.2	1255.2	1179.6	1087.3	1005.7	957.3	934.6
147.5°	1440.3	1433.0	1416.4	1388.0	1363.8	1307.2	1238.3	1156.6	1072.8	1012.9	983.6
150°	1466.9	1460.9	1444.2	1417.0	1392.8	1339.9	1273.3	1197.7	1117.6	1054.1	1016.3
152.5°	1492.3	1486.3	1467.2	1440.0	1419.4	1370.1	1309.6	1237.7	1156.3	1092.8	1053.8
155°	1525.9	1518.3	1500.2	1474.5	1456.3	1411.0	1355.0	1291.5	1221.9	1155.4	1111.5
157.5°	1552.5	1543.1	1526.2	1504.1	1484.8	1443.0	1394.3	1339.6	1278.8	1215.3	1170.5
160°	1568.2	1557.7	1539.5	1519.8	1501.7	1462.4	1418.5	1368.6	1312.7	1255.2	1206.8
162.5°	1579.1	1569.8	1548.0	1530.7	1515.0	1479.3	1437.9	1392.8	1342.9	1292.7	1247.9
165°	1590.9	1580.3	1557.7	1544.0	1530.4	1500.2	1463.9	1427.6	1385.3	1344.4	1308.1
167.5°	1591.8	1583.1	1560.4	1547.1	1537.1	1511.1	1481.7	1453.9	1420.9	1388.9	1358.6
170°	1589.4	1581.9	1559.2	1547.1	1539.5	1518.3	1492.6	1468.4	1442.7	1415.5	1391.3
172.5°	1580.9	1573.4	1551.9	1542.2	1538.3	1519.5	1498.7	1480.5	1458.4	1438.5	1419.1
175°	1559.2	1553.1	1535.0	1528.9	1530.4	1518.3	1503.2	1492.6	1479.0	1466.9	1456.3
177.5°	1527.4	1523.8	1510.5	1510.5	1515.3	1508.1	1503.2	1498.4	1492.3	1488.7	1485.1
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428089

CATALOG NUMBER: SQ2W-PP3-K-100U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0	1543.0
2.5°	1542.2	1539.6	1540.8	1542.0	1543.1	1544.3	1543.1	1542.0	1540.8	1539.6	1542.2
5°	1541.3	1538.8	1540.2	1542.6	1547.7	1552.8	1547.7	1542.6	1540.2	1538.8	1541.3
7.5°	1536.4	1534.4	1536.9	1540.3	1546.5	1552.8	1546.5	1540.3	1536.9	1534.4	1536.4
10°	1529.6	1528.5	1532.1	1536.1	1541.2	1546.2	1541.2	1536.1	1532.1	1528.5	1529.6
12.5°	1517.5	1517.3	1522.1	1526.8	1531.3	1535.8	1531.3	1526.8	1522.1	1517.3	1517.5
15°	1498.7	1500.6	1507.1	1512.9	1516.5	1520.1	1516.5	1512.9	1507.1	1500.6	1498.7
17.5°	1479.5	1484.0	1493.3	1501.2	1504.9	1508.7	1504.9	1501.2	1493.3	1484.0	1479.5
20°	1465.6	1472.1	1483.7	1494.2	1501.5	1508.7	1501.5	1494.2	1483.7	1472.1	1465.6
22.5°	1449.3	1459.3	1476.7	1492.9	1505.4	1517.8	1505.4	1492.9	1476.7	1459.3	1449.3
25°	1427.0	1444.7	1470.1	1493.9	1512.7	1531.5	1512.7	1493.9	1470.1	1444.7	1427.0
27.5°	1405.1	1430.0	1458.6	1483.7	1498.7	1513.6	1498.7	1483.7	1458.6	1430.0	1405.1
30°	1383.5	1411.0	1440.8	1466.5	1480.3	1494.0	1480.3	1466.5	1440.8	1411.0	1383.5
32.5°	1353.9	1383.5	1415.5	1442.7	1455.3	1467.9	1455.3	1442.7	1415.5	1383.5	1353.9
35°	1308.1	1341.1	1374.4	1401.2	1408.5	1415.7	1408.5	1401.2	1374.4	1341.1	1308.1
37.5°	1257.2	1284.8	1303.5	1317.7	1318.1	1318.5	1318.1	1317.7	1303.5	1284.8	1257.2
40°	1218.9	1238.1	1241.8	1242.1	1232.7	1223.3	1232.7	1242.1	1241.8	1238.1	1218.9
42.5°	1169.3	1174.4	1160.0	1138.8	1096.9	1055.0	1096.9	1138.8	1160.0	1174.4	1169.3
45°	1084.8	1052.9	979.7	917.6	888.6	859.6	888.6	917.6	979.7	1052.9	1084.8
47.5°	963.0	914.7	835.1	770.4	750.4	730.4	750.4	770.4	835.1	914.7	963.0
50°	865.5	811.2	743.8	688.5	669.6	650.8	669.6	688.5	743.8	811.2	865.5
52.5°	774.9	717.7	658.9	607.7	579.0	550.3	579.0	607.7	658.9	717.7	774.9
55°	663.1	600.0	531.2	472.6	445.1	417.5	445.1	472.6	531.2	600.0	663.1
57.5°	564.7	502.0	421.1	352.7	321.9	291.0	321.9	352.7	421.1	502.0	564.7
60°	494.6	434.8	355.0	291.4	276.2	261.0	276.2	291.4	355.0	434.8	494.6
62.5°	424.7	371.3	305.4	254.7	249.4	244.0	249.4	254.7	305.4	371.3	424.7
65°	331.3	289.6	249.0	218.4	217.7	216.9	217.7	218.4	249.0	289.6	331.3
67.5°	258.2	227.4	206.5	190.6	189.7	188.9	189.7	190.6	206.5	227.4	258.2
70°	216.6	191.6	180.0	170.9	169.4	168.0	169.4	170.9	180.0	191.6	216.6
72.5°	184.2	163.6	156.0	150.2	149.3	148.4	149.3	150.2	156.0	163.6	184.2
75°	141.2	127.0	123.4	120.5	119.8	119.1	119.8	120.5	123.4	127.0	141.2
77.5°	104.0	95.0	93.1	91.5	90.8	90.0	90.8	91.5	93.1	95.0	104.0
80°	80.5	74.7	73.9	73.2	72.5	71.8	72.5	73.2	73.9	74.7	80.5
82.5°	59.6	56.4	55.7	54.8	53.5	52.2	53.5	54.8	55.7	56.4	59.6
85°	31.7	29.5	26.6	23.9	21.7	19.6	21.7	23.9	26.6	29.5	31.7
87.5°	13.6	14.0	15.5	16.3	17.5	16.9	17.5	16.3	15.5	14.0	13.6
90°	34.8	45.4	56.0	62.0	68.1	65.0	68.1	62.0	56.0	45.4	34.8
92.5°	69.9	87.7	100.7	111.6	116.4	115.8	116.4	111.6	100.7	87.7	69.9
95°	140.6	161.8	183.0	198.1	207.2	204.2	207.2	198.1	183.0	161.8	140.6
97.5°	216.9	245.3	268.9	283.1	292.2	298.2	292.2	283.1	268.9	245.3	216.9
100°	267.7	294.9	322.1	338.8	353.9	359.9	353.9	338.8	322.1	294.9	267.7
102.5°	308.8	344.5	374.1	392.0	404.7	410.7	404.7	392.0	374.1	344.5	308.8
105°	376.6	414.4	446.1	468.8	482.4	487.0	482.4	468.8	446.1	414.4	376.6
107.5°	444.3	483.3	512.7	537.8	554.4	564.1	554.4	537.8	512.7	483.3	444.3
110°	497.5	529.3	561.1	583.7	600.4	606.4	600.4	583.7	561.1	529.3	497.5



TEST NUMBER: P1428089

CATALOG NUMBER: SQ2W-PP3-K-100U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	542.3	577.7	609.5	632.1	651.2	659.7	651.2	632.1	609.5	577.7	542.3
115°	604.9	651.8	680.5	701.7	715.3	722.9	715.3	701.7	680.5	651.8	604.9
117.5°	656.9	705.9	737.4	753.7	760.1	765.5	760.1	753.7	737.4	705.9	656.9
120°	689.6	735.0	771.3	792.4	800.0	803.0	800.0	792.4	771.3	735.0	689.6
122.5°	719.8	762.8	797.9	823.9	836.3	839.3	836.3	823.9	797.9	762.8	719.8
125°	762.2	803.0	839.3	865.0	878.6	886.2	878.6	865.0	839.3	803.0	762.2
127.5°	799.1	843.3	876.5	899.8	913.1	919.2	913.1	899.8	876.5	843.3	799.1
130°	819.7	865.0	898.3	924.0	936.1	942.2	936.1	924.0	898.3	865.0	819.7
132.5°	835.4	883.2	917.7	940.9	954.3	960.3	954.3	940.9	917.7	883.2	835.4
135°	854.4	904.3	940.6	963.3	975.4	981.5	975.4	963.3	940.6	904.3	854.4
137.5°	871.1	916.4	954.3	978.1	989.0	993.0	989.0	978.1	954.3	916.4	871.1
140°	883.2	922.5	960.3	983.0	995.1	996.6	995.1	983.0	960.3	922.5	883.2
142.5°	898.9	929.8	962.7	985.4	997.5	1000.2	997.5	985.4	962.7	929.8	898.9
145°	927.0	945.2	967.9	989.0	999.6	1002.6	999.6	989.0	967.9	945.2	927.0
147.5°	962.4	968.2	980.0	993.9	1004.2	1006.3	1004.2	993.9	980.0	968.2	962.4
150°	989.0	987.5	992.1	1001.1	1010.2	1008.7	1010.2	1001.1	992.1	987.5	989.0
152.5°	1019.3	1010.5	1010.2	1014.4	1018.7	1018.4	1018.7	1014.4	1010.2	1010.5	1019.3
155°	1070.7	1054.1	1045.0	1042.0	1042.0	1040.5	1042.0	1042.0	1045.0	1054.1	1070.7
157.5°	1127.3	1104.0	1090.4	1083.1	1081.0	1077.7	1081.0	1083.1	1090.4	1104.0	1127.3
160°	1166.0	1140.3	1126.7	1114.6	1110.0	1105.5	1110.0	1114.6	1126.7	1140.3	1166.0
162.5°	1202.3	1177.8	1162.9	1152.1	1147.5	1140.6	1147.5	1152.1	1162.9	1177.8	1202.3
165°	1261.2	1235.5	1218.9	1209.8	1203.8	1197.7	1203.8	1209.8	1218.9	1235.5	1261.2
167.5°	1320.2	1292.1	1281.2	1270.9	1265.2	1254.3	1265.2	1270.9	1281.2	1292.1	1320.2
170°	1356.5	1330.8	1324.8	1315.7	1305.1	1293.0	1305.1	1315.7	1324.8	1330.8	1356.5
172.5°	1388.0	1370.7	1364.7	1355.6	1352.3	1342.6	1352.3	1355.6	1364.7	1370.7	1388.0
175°	1433.6	1420.0	1420.0	1418.5	1414.0	1404.9	1414.0	1418.5	1420.0	1420.0	1433.6
177.5°	1471.8	1464.5	1469.3	1469.3	1468.1	1459.7	1468.1	1469.3	1469.3	1464.5	1471.8
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428089

CATALOG NUMBER: SQ2W-PP3-K-100U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1543.0	1543.0	1543.0	1543.0
2.5°	1548.6	1550.9	1541.1	1531.2
5°	1547.9	1549.7	1537.3	1525.0
7.5°	1542.7	1544.4	1531.8	1519.2
10°	1535.4	1537.0	1526.1	1515.2
12.5°	1522.7	1524.1	1513.8	1503.5
15°	1501.6	1501.5	1492.0	1482.6
17.5°	1479.8	1477.1	1465.7	1454.2
20°	1464.1	1459.6	1445.8	1432.1
22.5°	1446.7	1440.8	1424.7	1408.6
25°	1416.8	1405.2	1389.3	1373.3
27.5°	1383.8	1363.8	1348.0	1332.2
30°	1358.1	1335.3	1320.1	1304.8
32.5°	1326.8	1302.5	1286.7	1270.9
35°	1275.5	1247.2	1232.0	1216.8
37.5°	1220.7	1189.0	1171.7	1154.5
40°	1184.1	1152.4	1129.9	1107.5
42.5°	1145.0	1119.5	1090.7	1061.8
45°	1075.4	1059.8	1025.7	991.7
47.5°	979.9	984.2	950.6	917.0
50°	906.9	929.9	898.0	866.1
52.5°	830.7	865.5	837.1	808.7
55°	720.4	758.4	738.9	719.3
57.5°	609.2	639.2	625.4	611.6
60°	534.4	561.6	550.7	539.9
62.5°	465.7	494.1	484.3	474.6
65°	374.1	403.8	394.3	384.9
67.5°	298.9	326.9	316.6	306.3
70°	255.0	281.1	270.2	259.3
72.5°	218.0	240.8	230.5	220.2
75°	165.8	182.3	174.3	166.4
77.5°	120.0	130.8	125.8	120.7
80°	91.3	98.9	96.8	94.6
82.5°	65.2	69.7	70.4	71.1
85°	33.2	34.6	36.1	37.5
87.5°	15.0	15.1	13.9	12.7
90°	27.2	16.6	10.6	4.5
92.5°	58.7	40.8	28.7	16.6
95°	118.0	93.8	66.5	46.9
97.5°	187.8	148.8	121.9	89.5
100°	225.3	187.5	161.8	127.0
102.5°	266.5	234.7	199.3	164.5
105°	340.3	300.9	260.1	220.8
107.5°	408.6	365.4	316.4	281.0
110°	452.2	405.3	353.9	322.1



TEST NUMBER: P1428089

CATALOG NUMBER: SQ2W-PP3-K-100U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	494.5	446.4	393.8	362.0
115°	552.0	499.1	450.7	423.4
117.5°	607.3	552.9	501.8	480.3
120°	641.2	586.8	536.9	520.2
122.5°	669.0	615.8	569.5	562.6
125°	710.8	656.3	617.0	626.1
127.5°	744.6	694.7	669.9	690.2
130°	765.2	721.4	706.2	735.0
132.5°	783.4	749.2	742.5	782.2
135°	810.6	790.9	797.0	851.4
137.5°	842.9	835.4	855.7	924.3
140°	863.5	868.1	896.8	973.9
142.5°	891.3	901.9	939.1	1021.1
145°	934.6	957.3	1005.7	1087.3
147.5°	983.6	1012.9	1072.8	1156.6
150°	1016.3	1054.1	1117.6	1197.7
152.5°	1053.8	1092.8	1156.3	1237.7
155°	1111.5	1155.4	1221.9	1291.5
157.5°	1170.5	1215.3	1278.8	1339.6
160°	1206.8	1255.2	1312.7	1368.6
162.5°	1247.9	1292.7	1342.9	1392.8
165°	1308.1	1344.4	1385.3	1427.6
167.5°	1358.6	1388.9	1420.9	1453.9
170°	1391.3	1415.5	1442.7	1468.4
172.5°	1419.1	1438.5	1458.4	1480.5
175°	1456.3	1466.9	1479.0	1492.6
177.5°	1485.1	1488.7	1492.3	1498.4
180°	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428089  
 CATALOG NUMBER: SQ2W-PP3-K-100U-075D-L830-UNV-STD-W-WM-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.35	19.15	19.33	20.15	21.46	14.12	14.92	15.10	15.92	17.23
	3H	19.40	20.12	20.40	21.13	22.46	15.42	16.14	16.42	17.15	18.48
	4H	19.77	20.45	20.78	21.46	22.80	15.98	16.66	16.99	17.67	19.01
	6H	19.96	20.59	20.98	21.60	22.96	16.34	16.96	17.36	17.98	19.33
	8H	20.02	20.62	21.05	21.65	23.00	16.47	17.06	17.49	18.09	19.44
	12H	20.04	20.61	21.07	21.63	23.01	16.50	17.06	17.53	18.09	19.46
4H	2H	18.46	19.14	19.48	20.15	21.49	15.02	15.70	16.04	16.71	18.05
	3H	19.75	20.31	20.77	21.35	22.71	16.44	17.00	17.46	18.04	19.40
	4H	20.25	20.77	21.29	21.80	23.18	17.06	17.57	18.09	18.60	19.98
	6H	20.57	21.01	21.61	22.06	23.44	17.50	17.94	18.54	19.00	20.37
	8H	20.67	21.09	21.72	22.13	23.52	17.67	18.08	18.71	19.13	20.52
	12H	20.72	21.09	21.78	22.15	23.55	17.72	18.09	18.78	19.15	20.55
8H	4H	20.27	20.68	21.31	21.73	23.12	17.36	17.78	18.41	18.82	20.21
	6H	20.68	21.02	21.75	22.11	23.50	17.92	18.26	18.99	19.35	20.74
	8H	20.86	21.16	21.93	22.23	23.64	18.17	18.47	19.24	19.54	20.95
	12H	20.95	21.22	22.03	22.29	23.73	18.27	18.53	19.34	19.60	21.05
12H	4H	20.23	20.60	21.29	21.66	23.06	17.37	17.74	18.43	18.80	20.20
	6H	20.67	20.97	21.75	22.04	23.45	17.98	18.29	19.06	19.36	20.77
	8H	20.87	21.13	21.94	22.20	23.65	18.26	18.52	19.34	19.59	21.04